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Notice of Allowability	Application No.	Applicant(s)		
	10/803,283	PAL ET AL.		
	Examiner	Art Unit	-	
	Susan F. Rayyan	2167		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to 1/7/2008.			•	
2. The allowed claim(s) is/are 1-12,14-23, now renumbered a	<u>s claims 1-22</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ol> Applicant has THREE MONTHS FROM THE "MAILING DATE" of the priority unapplicant has THREE MONTHS FROM THE "MAILING DATE" of the priority unapplicant has THREE MONTHS FROM THE "MAILING DATE" of the priority unapplicant has the priority and the priority documents have	been received. been received in Application No cuments have been received in this r	national stage applica		
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.			
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declara	S AMENDMENT or N tion is deficient.	OTICE OF	
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") mus         <ul> <li>(a)  including changes required by the Notice of Draftspers</li> <li>1)  hereto or 2)  to Paper No./Mail Date</li> <li>(b)  including changes required by the attached Examiner's Paper No./Mail Date</li> </ul> </li> <li>Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the</li> </ol>	on's Patent Drawing Review (PTO-s s Amendment / Comment or in the O	ffice action of	e back) of	
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MATERIAL IN FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. I AL MATERIAL.	Note the	
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Attachment(s)	5 Motice of Informal P	atent Application		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		<ul><li>5.  Notice of Informal Patent Application</li><li>6.  Interview Summary (PTO-413),</li></ul>		
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Date 7. ⊠ Examiner's Amendment/Comment			
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.   Examiner's Statement of Reasons for Allowance			
	9. 🔲 Other	9.		
	·	Susan Rayyan January 31, 2008		

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## **EXAMINER'S AMENDMENT**

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Kenneth R. Eiferman, Registration Number 51,647 on January 31 and February 1.
- 3. The application has been amended as follows:

## **Claims**

In claim 9

Line1, after "readable" inserted -storage--

In claim 10

Inserted between Line4 and line 5 -- a processor; --

In claim 19

Line1, after "readable" inserted -storage-

In claim 20

Inserted between Line1 and line 2 -- a processor; --

## Allowable Subject Matter

- 4. Claims 1-12, 14-23 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

Regarding independent claim1, prior art of record does not teach mapping the extensible markup language based algebra operations in the unified tree to enhanced relational algebra based extensible markup language modification operations in a relational tree and executing the query by modifying data that is stored in the node of the extensible markup language schema in the database in accordance with the relational tree comprising the enhanced relational algebra based extensible markup language modification operations.

Regarding independent claim10, prior art of record does not teach an extensible markup language algebrizer for mapping the extensible markup language based algebra operations in the unified tree to enhanced relational algebra based extensible markup language modification operations in a relational tree and a query processor that executes the query by modifying data that is stored in the node of the extensible markup language schema in the database in accordance with the relational tree comprising the enhanced relational algebra based extensible markup language modification operations.

Regarding independent claim16, prior art of record does not teach generating a query plan for the expression including enhanced relational algebra expressions with a nested table abstraction operation and executing the query based on the query plan by

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using the nested table abstraction operation to establish a parent to descendent relationship among instances of nodes in an extensible markup language schema without compiling separate lists.

Regarding independent claim 20, prior art of record does not teach an extensible markup language algebrizer for generating a query plan for the expression including enhanced relational algebra expressions with a nested table abstraction operation and a query processor that executes the query based on the query plan by using the nested table abstraction operation to establish a parent to descendent relationship among instances of nodes in an extensible markup language schema without compiling separate lists corresponding to each of the nodes.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Contact Information**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan F. Rayyan whose telephone number is 571-272-1675. The examiner can normally be reached on M-F, 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Susan Rayyan

January 31, 2008

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